FEDOROV, V.I.; SHVETS, I.T.; SHEL'MENKO, N.N.

Experimental investigation of temperature distribution in a rotor of drum design subject to nonsteady heat exchange. Trudy Inst. tepl.

AN URSR no.13:53-59 '56. (MIRA 10:5)

S/021/61/000/006/008/009". D247/D301

26.212°
AUTHORS:

Minyaylenko, M.O., Fedorov, V.I., and Shel'menko, N.N.

TITLE:

Temperature measurement of turbine elements

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR, Dopovidi, no. 6,

1961. 759 - 762

TEXT: The authors, after discussing the importance of the temperature conditions in different parts of steam and gas turbines, describe experimental methods at exact temperature measurements in turbine rotors or housings, worked out in the department of thermal motors of the Institute of Heat and Power Engineering at the Academy of Sciences UkrSSR. A chromel-alumel thermocouple was prepared from an 0.5 mm wire, plaited with a glass thread impregnated with a silicone fire-proof cement. In the tested rotors a central opening was bored out with radial holes at chosen points, intersecting the central one. In the holes thermocouples were inserted by means of wires, the former being coated with a glass fabric pre-Card 1/5

25167

Temperature measurement of ...

S/021/61/000/006/008/009 D247/D301

serving them from mechanical damage. When the thermocouples were pulled through the holes, they were held fast in their place by a special device and welded to a chosen point; after welding, holes were filled with heat resistant cement and a metallic stopper was fixed on the top, its object being to withstand the cement pressure during the turbine high speed revolutions, and thus prevent dislocation of the thermocouples. A schematic drawing of the fixing device is given. For determining the exact temperature range in working and stationary turbine elements a special apparatus has been developed, permitting the recording of the variable EMF of thermocouples in a few seconds, within 2 %. The thermocouple EMF was conducted through a rotary contact, an automatic switch and through an amplifier to a recording oscillograph. Thermocouples from stationary elements were directly connected with the automatic switch. For evaluating the equipment operation, a method of comparison of the oscillograph readings of the tested thermocouples with those of standard ones was used, one of the control thermocouples being connected with its ends crossed, thus permitting the determination of

Card 2/5

Temperature measurement of ...

S/021/61/000/006/008/009., D247/D301

the amplifier background (Hb.g.). The evaluation proceeded as follows: (1) The difference between the oscillograph readings for two standard thermocouples was taken - $H_{\rm st2}$ - $H_{\rm o}$, where $H_{\rm st2}$ - reading of the non-crossed standard thermocouple, $H_{\rm o}$ - reading of the crossed one. (2) The value of the background was determined:

H bg =
$$\frac{H_{st2} - H_o}{2}$$
.

(3) The difference $H_{st2}-H_3$ was determined, H_3 being the width of the light-ray tip taken from the oscillograph m. (4) To the value $H_{st2}-H_3$, the value of the background was added or subtracted,

$$H = H_{st2} - H_3 \pm H_f$$

(subtracted when $\rm H_{st2}>H_o$, added when $\rm H_{st2}< H_o$). The value "H" corresponds to the temperature difference: $\rm t_{hj}-t_{cj}$ that of the Card 3/5

Temperature measurement of ...

S/021/61/000/006/008/009 D247/D301

hot and cold junctions of the standard thermocouples. (5) The correction scale for the oscillograph records was calculated:

$$K = \frac{t_{hL} - t_{cj}}{H}.$$

(6) The temperature of the investigated point was calculated:

$$t = (H_t - H_3 \pm H_f) K + t_{cj}$$

where H_t is the deflection of the light ray on the oscillograph under the effect of the EMF of the investigated thermocouple. The methods and equipment mentioned were used in the Institute of Heat and Power Engineering to determine local temperatures in turbine rotors and housings and for evaluating thermal stresses in these installations, and were found in practice to be very valuable. This report was presented by I.T. Shvets (Member of the Academy of Sciences UkrSSR). There are 3 figures.

Card 4/5

25167

S/021/61/000/006/008/009 D247/D301

ASSOCIATION: Instytut teploenergetyky AN URSR (Institute of Heat and Power Engineering, AS UkrSSR)

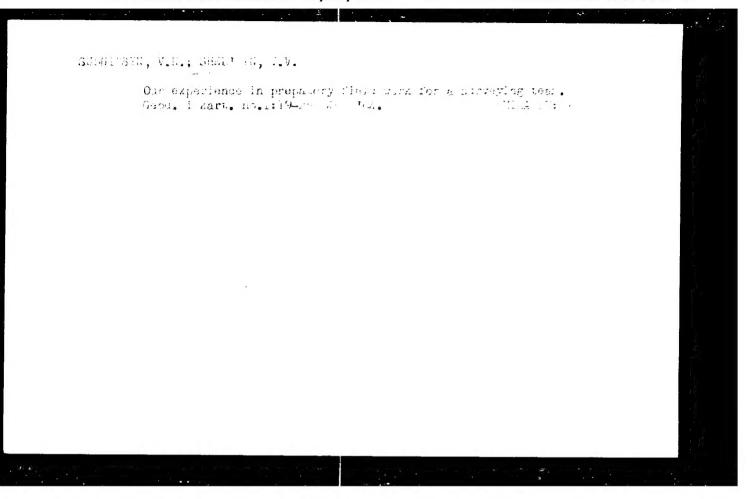
SUBMITTED: October 8, 1960

Temperature measurement of ...

SHEL'MIN, Nikolay Antonovich

[Mathematics] Matematika. Moskva, Vysshaia shkola. Pt.l. 1963. 137 p. (MIRA 17:10)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya.



SHELNIN, G.

The constancy of altitude marks at the leveling system of the city of Tallinn. p. 198.

PUBLIKATSICONID. PUBLIKATSII. (Tartu. Ulikool. Tahetorn.) Tartu, Estonia. Vol. 33, no. 3, 1958.

Monthly list of East European Accessions (EEAI) Vol. 9, no. 1, Jan. 1960.

Uncl.

JERN. 1, Anskeundr Kirillovich

(Senegal; its economy and foreign trade) Senegal; ekonomika i vneshnidia torgovlia. Mockva, Vneshtorgizdut,

1962. 83 p. (MIRA 17:3)

```
KILICINA, M.L. (Kazan'); KRUPIN, V.I. (Kazan'); SHEL'MOVA, A.K. (Kazan');
SHISHKIN, A.V. (Kazan'); KHALTMBADZHA, V.G. (Kazan')

Stratigraphy of coal deposits in Tatarstan and southern Udmurt
A.S.S.R. Uch.zap.Kaz.un. 115 no.10:94-98 '55. (MLRA 10:5)

(Tatar A.S.S.R.--Coal geology)

(Udmurt A.S.S.R.--Coal geology)
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ERUFIN, V.I.; FILIGINA, M.L.; SEEL'NOVA, A.K.; RELIYMENDERA, V.C.

Carboniferous sediments of the western, northern, and northeastern that a.S.S.R. and southern Udmurtia. Uch. zap. Kaz. un. 121 (MIRA 14:9) (Tatar A.S.S.R..-Geology, Stratigraphic) (Udmurt A.S.S.R..-Geology, Stratigraphic)

POZNER, Viktor Mikhaylovich; KIRINA, Tarara Il'inichna; PORFIR'YEV, Gleb Sergeyevich. Uchastvovali: APRODOVA, A.A.; VISSARIONOVA, A.Ya; ZAKHAROVA, H.M.; KILIGINA, M.L; KOVYAZINA, H.M.; LUN'YAK, I.A.; MUSINA, K.K.; ORLOVA, I.N.; SAVIHOVA, S.I.; TAZLOVA, Ye.N.; TERENT'YEVA, V.D.; FADEYEVA, M.I.; CHERNOVA, Ye.I.; SHEL'NOVA, A.K. TIKHIY, V.N., red.; DAYEV, G.A., ved.red.; CENNAD'YEVA, I.M., tekhn.red.

[Volga-Ural oil-bearing region; Carboniferous sediments] Volgo-Ural-skaia neftenosnaia oblast'. Kamennougol'nye otlozheniia. Leningrad, Gos.nauchn.tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1957.
287p. (Leningrad. Vsesoiuzryi neftianoi nauchno-issledovatel'-skii geologorazvedochnyi ir.stitut. Trudy no.112) (MIRA 11:12)

(Volga Valley-Geology, Stratigraphic)

(Ural Mountain region-Geology, Stratigraphic)

KILIGINA, M.L.; SHEL NUVA, A.K.

Boundary between the Devonian and Carboniferous in the Tatar A.S.S.R. and the age of the terrigenous formation in the lower Carboniferous. Trudy VNIGNI no.14:97-103 '59. (MIRA 12:10)

l.TSentralinaya nauchno-issledovateliskaya laboratoriya tresta Tatnef tegazrazvedka.

(Tatar A.S.S.R.--Geology, Stratigraphic)

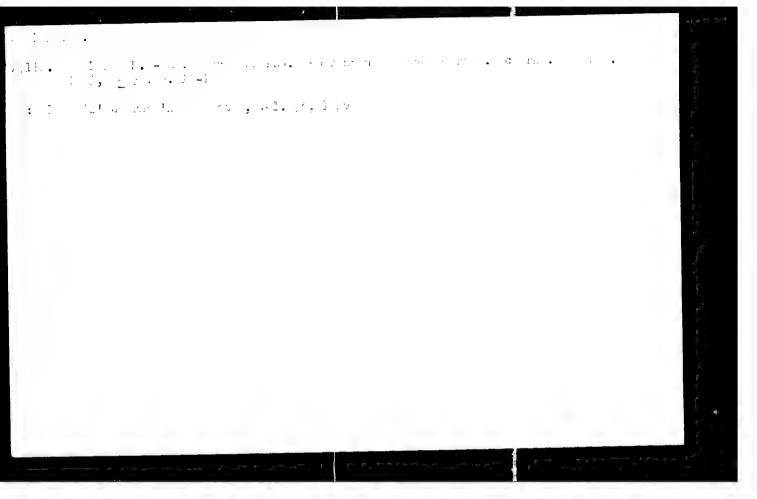
GOLIKOV, S.N.; SELIVANOVA, A.T.; SHELOKHANOVA, V.Ye.

Pharmacology of 1,3-aminopropanol derivatives. Farm i toks. 23 no.1:8-12 Ja-F '60. (MIRA 14:3)

l. Laboratoriya toksikologii (zav. - doktor med.nauk V.Ye.Shelokhanova) Sanitarno-khimicheskogo instituta AMN SSSR. (ALCOHCIS)

Similar Manufaction of production is growing. Holds, proless, 12 , No. 6, 1952.

Manufact Lie of Muselen Acceptions, Library of Congress, August 1952, MICLASSIFIED.



Minute 17 (and a. I. Termymyev, E. J. Plompti. A. Hert, A. D. Larkov

Minute 17 (Minute Arm Larmymev)

by I. I. De rapayev, .. A. Plovinya, S. J. Ellert, R. J. Chelckov and J. F. Parkov.

Report presented at the US Atoms-for-Peace Conference, Jeneva, 9-13 cent. 1975.

SHELONG.

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: Hether of equiving hybrid cour and without remaring the Linuxaci. w miche from the moternal planta have been developed by The Markery Jelsetien Station. Jour Justions of the im-

pregnation of self-pollinating lines and simple hybrids have been sendied. Then a self-pollin ling line is used to the maternal form, it is possible to develop hybrids tithen, we noting the penicles facte of from the meternal

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SAPPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549020007-

Problem concerning the stability of an adoptive control system of a pertain class. Trudy Inst. avtom 1 elektrometr, 39 'N SSSE no. 8:28-35 364.

SHELOMANOV, I. Our support. NTO 2 no.4:26-27 Ap '60. (MIRA 13:6) 1. Direktor L'vovskoy khlopkopryadil'noy fabriki. (Lwov--Gotton spinning--Technological innovations)

All tivery No..

Injury of the common pile dict during a gentric resection due to jeptic alcers. Trudy SMI 16:74-79 [63. (Mik: 18:1)]

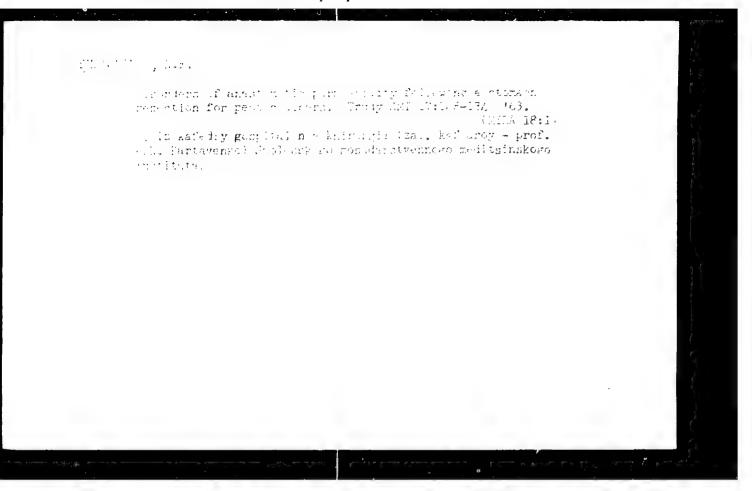
1. Lz kafedry gospitallnoy chirungii (zav. -- prof. A.N.Kartavenko)

Smolenskogo gosudarstvennogo meditsinskogo instituta.

General and directative particulars following a stemach resection for peptic others. Trudy SMI in:80-89 '63. (MIRA 18:1)

Analysis of the causes of lethality following a stemach resection for peptic others according to clinical materials of hospital curgery of the Smolensk Medical Institut during 1942-1961. Ibid.:90-97

1. Iz kafedry grapital may kniturgii (zav. - prof. A.N.Kartavenko) in lephano grapital and vannego meditsinskogo instituta.



CHELCEART, Tu. V.

Opyt ratsionalizatsii protsessov bovki i shtampovki. (Vestn. Mash., 1948, no. 7, p. 37-40)

(Rational forging and stamping operations.)

DLC: TN4.V4

SC: Manufacturing and Mechanical Enganeering in the Soviet Union, Library of Congress, 1953.

SHELOMÁEV, Yu. V.

Tipizatsiia protsessov kovki kolenchatykh valov. (Yestn. Mash., 1948, no. 9, p. 144-45)

(Standardized operations of forging crankshafts.)

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

O prochnosti kovanogo kolenchatogo vala v razlichnykh ego chastiakh. (Vestn. Mash., 1951, no.7, p. 15-14)

Strength of various parts of a forged crankshaft.

FIG. TM4.74

Sh: Manufacturing and dechanical Engineering in the Soviet Union, Library of Congress, 1972.

SHEL MAY'V, YU. V., ENG.

Steel Forgings

Influence of forging operations on the quality of forged sterl, Vest. mash., 32 no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

122-5-15/35

AUTHOR: Shelomayev, Yu. V. (Engineer)

TITLE: The Manufacture of Large Crankshafts from the Billet by means of Progressive Die Stamping (Izgotovleniye krupnykh kolen-chatykh valov iz slitka sposobom posledovatel noy shtampovki)

PERIODICAL: Vestnik Mashinostroyeniya, 1957, Nr 5, pp.33-36 (USSR)

ABSTRACT: Four currently used forging processes for crankshafts are enumerated, none of which ensures the absence of traces of liquation zoning at the finally machined crank pin surfaces. The use of hot die stamping instead of flame cutting and forging has been developed recently. Two new procedures are mentioned, namely the progressive semi-die stamping without flash in special cast dies, developed by the Research Institute of the Ministry for the Defence Industry (NII Ministerstva Oboronnoy Promyshlennosti) and sectional progressive stamping with flash (developed by the "Uralmashzavod" jointly with VPTI MTM). Both methods are briefly described with sketches including the dies. In the first method, after pressing between a V and a flat to a diameter of 500 mm the shaft is necked-in by a progressive die. The cranks are then drawn out and each pair is stamped in a die. The shaft is finished by drawing out the ends and straightening. Compared with the earlier forging the weight of the blank is reduced from 6.5 to

Card 1/2

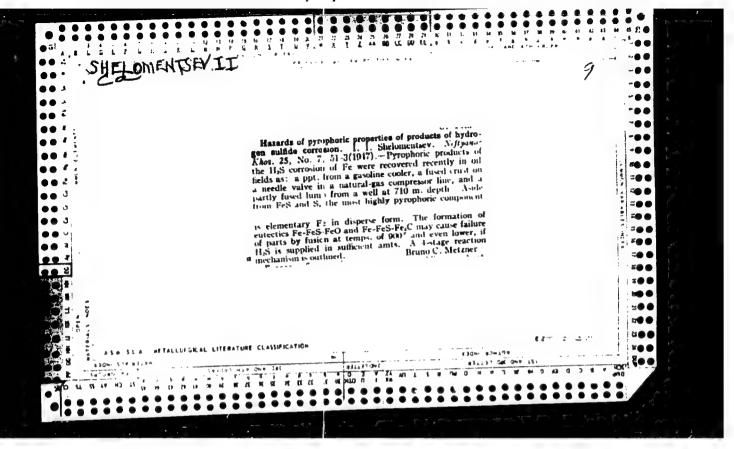
122-5-15/35

The Mamufacture of Large Crankshafts from the Billet by means of Progressive Die Stamping.

5.5 tons, the forging time reduced by eight hours (from 15). In the second method, after drawing out the shaft, it is necked-in and the cranks are drawn out. After a preparatory die stamping operation of the whole shaft, using all the sections of the upper part of the die, finish stamping is applied progressively to three sections. Finally, the flash is cut off. The billet weight has been reduced from 9 to 2.5 tons and the forging weight from 5150 to 1300 kg. The stamping time is 3 hours and the forging press of 30 000 tons capacity has been replaced by a 10 tonpress. The scrap percentage has been reduced from 35% to 3%. There are 6 figures.

AVAILABLE:

Card 2/2



CHILO CHIEBA, I. I.

"Combating Corrosion in the Oil Fields of the Jecond Baku," published by Gostoptekhizdat (State Scientific and Technical Publishing House of Fetroleum and Mined-Fuel), Moskva, 1948, 40 p.

Translation of pages 4-8, D-506514, 19 Aug 1955.

SHELOMENTSEV, T.

Under favorable industrial conditions. Prom. koop. 14 no.5:32 My 160. (MIRA 13:12)

1. Predsedat@1' pravleniya arteli invalidov im. 3-go veresnya, L'vov. (Lvov-Invalids-Occupations)

MINYAYEV, V.A.; SHELOMENTSEVA, K.A.; DEMIDOV, V.A.

Concerning the articles, "Medical care without registration in outpatient institutions of Tashkent" and "Distribution of surgical beds in a city." Zdrav. Ros. Feder. 5 no.5:39-41 My '61. (MIRA 14:5)

1. Zaveduyushchiy Leningradskim gorodskim otdelom zdravookhraneniya (for Minyayev). 2. Glavnyy vrach ob"yedinemnoy bol'nitsy imeni V.I.Lenina, Leningrad (for Shelomentseva). 3. Glavnyy vrach polikliniki No.37, (for Demidov).

(TASHKENT—HOSPITALS—OUTPATIENT SERVICES)

(PENZA—HOSPITAL BEDS)

CHERNOVA, I.V.; KOZLOVA, A.A.; SAGITOVA, R.G.; SHELOMENTSOVA, N.I.

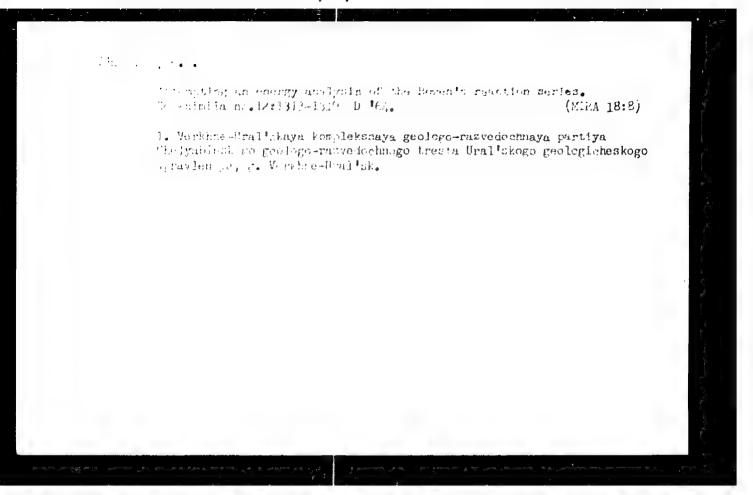
Epidemiologic effectiveness of enteroparenteral vaccination against dysentery. Zhur. mikrobiol. epid. i immun. no.11:58-60 N 154.

(MLRA 8:1)

1. Iz Ufimskogo instituta vaktrin i syvorotok (dir. U.S.Yenikeyeva, nauchnyy rukovoditel' prof. N.I Mel'nikov)

(DYSENTERY, BACILLARY, prevention and control,

vacc., enteroparenteral technic)



Using trolley wires as a power supply for gantry crans motors.

Mekh.stroi. 13 no.10:23-24 0 '56.

(Cranes, derricks, etc.)

(Electric lines--Overhead)

GOROZHANINOV, N.Ye., inzh.; SHELOMOV, B.Ye., inzh.
Submerged-melt welding of crane rails. Nov.tekh.mont.i

spets.rab.v stroi. 21 no.12:19-22 D '59. (MIRA 13:3)

1. Nauchno-issledovatel'skiy institut promyshlennykh zdaniy i sooruzheniy Akademii stroitel'stva i arkhitektury SSSR. (Cranes, derricks, etc.) (Electric welding)

GALAKTIONOV, A.T.; DENISOV, Yu.A.; KOPYTOV, G.T.; MASLOV, Yu.A.; NIKONOV, I.P.; PETUNIN, I.V.; KOCHEVA G.N.; KUZNETSOV, A.P.; LELEKO, N.M.; RAZIKOV, M.I.; SPESHKOV, V.V.; STEPANOV, E.V., STEPANOV, V.V.; kand. tekhn. nauk; SHELOMOV, B.Ye.; YUNYSHEV, G.P.; YES'KOV, K.A., dots., retsenzent; BAKSHI, O.A., dots., retsenzent; BEREZKIN, P.N., dots., retsenzent; PATSKEVICH, I.R., dots., retsenzent; RUDAKOV, A.S., dots., retsenzent; FIZHBEYN, N.B., inzh., retsenzent; KHRUSTALEV, L.Ya., Anzh., retsenzent; KRUTIKHOVSKIY, V.G., inzh., red. BOBRGV, Ye.I., kand. tekhn. nauk, red. DUGINA, N.A., tekhn. red.

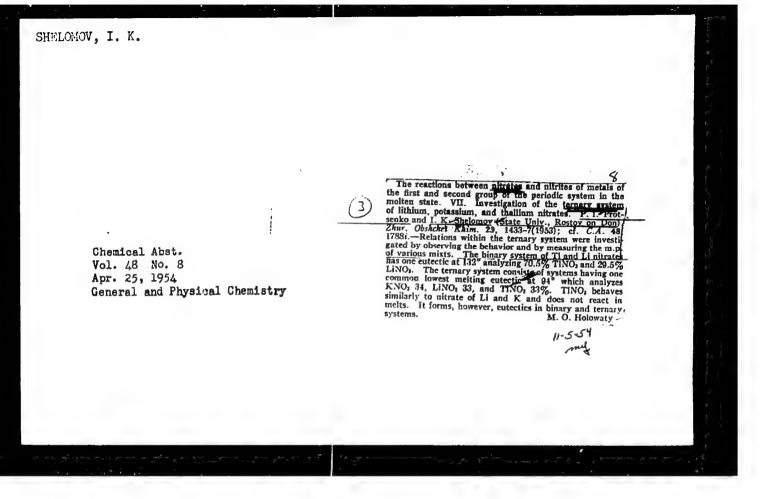
[Welding handbook] Spravocinik rabochego-svarshchika. Pod red. V.V.Stepanova. Moskva, gos. nauchno-tekhnizd-vo mashinostroit. lit-ry, 1960. 640 p. (Welding)

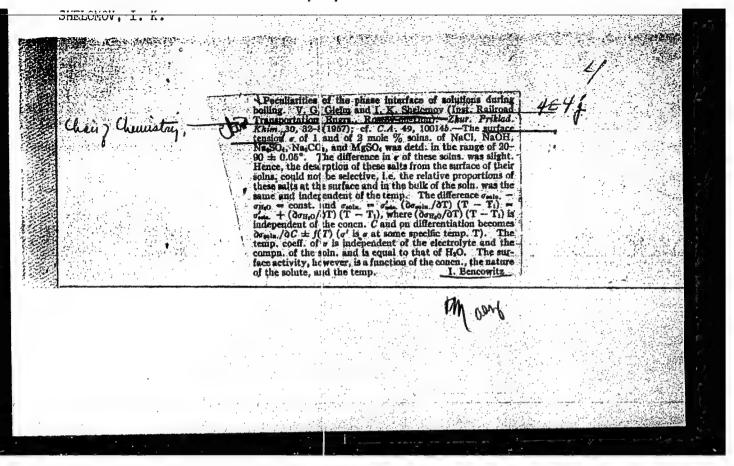
SHELDMOV, B.Ye., inzh.

Stand for automatic welding with stageless regulation of the speed of rotating products. Now.tekh.mont.i spets.rah.v stroi. 22 no.1:24-25 a '60.

1. Trest Uralstal'konstruktsiya.

(Electric welding---Equipment and supplies)





OSIPOV. O.A.; SHELOMOV. I.K. (Rostov-na-Donu)

The relation between the dipole moment and surface tension
[with summary in English]. Zhur.fiz.khim.31 no.3:1756-1761
Ag. '57.

(Dipole moments) (Surface tension)

(Dipole moments) (Surface tension)

507/20-122-5-03/57 Osiyov, C. A., Shejomay, -To-K. On the Problem of the Hydration of Ions in Aqueous Solutions TIPLE: 'K vojrosu o gidratitsii ionov v vodnykh rastvorakh) Doklady Akademii nauk SSSR, 1950, Vol 122, Mr 3, pr 423-430 PERIODICAL: (USSR) D. Bernal and R. Fauler (Ref 1) and also O. Ya. Samoylov APSTRACT: (Ref 2) showed that in acueous solutions different ions act in a different manner upon the translatory motion of the nearest water molecules. The multi-charged and the small singly charged ions diminish the intencity of this motion, but the large singly charged ions intensify it, i.e. the small ions intensify the orientation of the livoles in water, but the large ions cause a lescrientation of such dipoles. This chenomenon is called "orientation dehydration"; it can be discussed according to the electrostatic theory of the liquid state. The authors deduced an approximate expression for the internal field E in any point of the polar liquid. At room temperature, E $\sim 4.2.10^5$ CGS. If one water molecule is exchanged for an ion, the energy state of the liquid remains Card 1/3

SCV, 20-122-5-2), 57

On the Problem of the Tydration of Jons in Aquetus Solutions

unchanged only in the following case: The force with which the ion acts upon the surrounding molecules, is equal to the force with which the surrounding molecules (naturally without changing the degree of their orientation) act upon the ion (this means an equilibrium of the forces). In other words, the field strength caused by the ion in the centers of the surrounding molecules must be equal to the internal field strength E. For E ion > E there will be a jositive hydration,

an) for $E_{\rm ion}$ < E, a negative one. $E_{\rm ion}$ denotes the field strength of the ion. A formula is deduced for the critical radius of the ion where the positive hydration becomes negative. An expression is given also for the effective radius of the water molecule. Finally, the authors calculate the additional energy of the orientation which is transmitted by the ion to the nearest molecules. The values of Δ u (additional energy of the orientation of the molecule in the field of the ion) agree well with the experimental data. There are 1 table and 11 references, 11 of which are Soviet.

Card 2/3

SOV/20-122-3-29/51

On the Problem of the Hydration of Ions in Aqueous Solutions

ASSOCIATION: Rostovskiy-na-Domu gosudarstvenyy universitet (Rostov-na-Domu

State University)

PRESENTED: May 17, 1958, by A. N. Frumkin, Academician

SURMITTED: December 13, 1957

Card 3/3

CIA-RDP86-00513R001549020007-3" APPROVED FOR RELEASE: 08/23/2000

SOV/80-59-1-37/44

ATTI SAC:

Cleym, V.C., Caelomov, I.E. are Chidlovskiy, B.R.

CICLE:

on the Processes Lending to Drop Formation During Disruption of Bubbles on the Duringe of Liquid - Gas Separation (O protsessakh, privo gashchikh k generatsii kapel' pri razryve puzyrey na poverkinosti raudela shidkost'-gaz)

Churnal priklalney khimii, 1955, or 1, pp 218-222 (UCBE)

A1 00 HAC1:

FELIGITUAL:

The study of phenomena occurring between the liquid and gas phases in the processes of boiling and bubbling necessitated the consideration of the geometry of bubbles in connection with the problems of their stability on the separation surface and generation of moisture during their bursts. The authors investigated the phenomenon theoretically and then carried out experiments for determination of the weight of drops in dependence on the bubble radius. The conclusions drawn are as follows: 1. The bubble on the surface, which separates liquid from gas, consists of two segments, the upper of which can be approximately considered as a hemisphere; 2. The formation of drops from the surface of liquid can take place only up to a certain critical value of the bubble radius; 3. There are definite relations between the kinetic energy of the formed

Card 1/2

SOV/80-59-1-37/44

Un the Processes Leading to Brop Formation Luring Disruption of Bubbles on the Burface of Liquid - Gas Separation

drops, its mass, the height of its lift, and the radius of the bubble: 4. The formation of drops in alkaline media is energetically less probable than in neutral ones under the same other conditions.

There are 4 graphs, 1 set of photos, 1 table, and 5 references, 4 of which are Soviet and 1 English.

ASSOCIATION: Kafedra khimii Rostovskogo-na-Donu instituta inzhenerov zhelez-

nodorozhnogo transporta (Chemistry Chair of the Rostov-na-Donu

Institute of Railroad Transport Engineers)

SUBLITUED: July 19, 1957

Card 2/2

5(4) AUTHORS:

Osipov, O. A., Shelomov, I. K.

TITLE:

The Determination of the Instability Constant of Complex Compounds by Means of the Polarization Method (Opredeleniye konstanty nestoykosti kompleksnykh soyedineniy metodom

SOV/156-59-2-8/48

polyarizatsii)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya

tekhnologiya, 1959, Nr 2, pp 253-255 (USSR)

ABSTRACT:

The quantitative relationship between the degree of dissociation of complex, of electrically nonconductive compounds and their orientation polarization is investigated. The equations for the crientation polarization are derived and

found for the instability constant

 $k = \frac{1 \cdots \alpha!}{\alpha! \left[1 - x_B(2 - \alpha!)\right]}$ (x_B = concentration of the component B). The polarization

equations and the value of the instability constant were test-

Card 1/2

ed on binary systems yielding complex compounds by hydrogen bonds. Table 1 shows the values for chloroform diethyl ether,

SOV/156-59-2-8/48

The Determination of the Instability Constant of Complex Compounds by Means of the Polarization Method

table 2 for chloroform - methyl acetate. The calculated instability constant amounts to 4.20 ± 0.2 for the first system, to 3.92 ± 0.12 for the second. There are 2 tables and 7 references, 5 of which are Soviet.

PRESENTED BY: Kafedra fizicheskoy i kolloidnoy khimii Rostovskogo-na-Donu

gosudarstvennogo universiteta

(Chair of Physical and Colloid Chemistry, Rostov-na-Donu

State University)

SUBMITTED: October 23, 1958

Card 2/2

SOV/80-32-4-12/47

5(4)

Gleym, V.G., Shelomov, I.K.

TITLE:

AUTHORS:

The Physical Chemistry of Foams (K fiziko-khimii pen)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 4, pp 778-785 (USSR)

ABSTRACT:

The effect of temperature, pressure and physical-chemical properties on the stability and average life of foam films is investigated. It is shown that the rupture energy of the film depends directly on the surface tension and on the square of the film thickness. For solutions the same mechanism is effective, but the connection between the equilibrium values of the coefficient of surface tension and the forces of intermolecular cohesion is more complicated. The rupture energy of the film is determined by the ratio of adsorption to the value of the surface tension of the solutions. The stability of the film in solutions is higher than in pure liquids. Experimental results correspond to the calculated values as well as to results obtained by Venstrem and Rebinder _ Ref 5]. The maximum stability of the foam corresponds to the maximum value of the film stability. The length of the hydrocarbon chain increases the film stability to a certain value but surface activity increases continuously with the length of the hydro-

Card 1/2

The Physical Chemistry of Foams

SOV/80-32-4-12/47

carbon chain. Foam dampers are characterized by a high adsorption potential and low film rupture energy. Trapeznikov, Pozin, D'yakonov, Zel'dovich, Kornfel'd and Yerchikovskiy are mentioned in the text.

There are 5 graphs, 3 tables and 14 references, 13 of which

are Soviet and 1 German.

ASSOCIATION: Kafedra khimii Rostovskogo instituta inzhenerov zh.-d. trans-

porta (Chair of Chemistry of the Rostov Institute of Engi-

neers of Railroad Transportation)

SUBMITTED:

September 20, 1957

Card 2/2

5(4)

sov/80-32-5-20/52

AUTHORS:

Gleym, V.G., Shelomov, I.K., Shidlovskiy, B.R.

TITLE:

The Stability of Electrolyte Foam

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 5, pp 1046-1050 (USSR)

ABSTRACT:

The present article is based on \sqrt{Refs} 1, $2\sqrt{2}$. The value of absorption of diluted solutions of electrolytes is based on Gibbs' equation in the form proposed by Semenchenko Ref 37. In the surface-inactive field the stability of films increases in direct proportion with the coefficient of surface tension. A method has been proposed by Shidlovskiy ensuring the generation of a single bubble at the liquidgas interface at a time. The apparatus for the method is shown in Figure 1. The mean time of existence of the bubbles was determined for NaCl, Na₂SO₄, NaOH, Na₂CO₃ and MgSO₄. The stability of the bubbles increases with the concentration to a value of about 500 mgequ./1. At this point the decrease of the film thickness starts, which has been established by Deryagin Ref 4. The highest stability is produced by substances causing an alkaline reaction of the solution,

Card 1/2

like NaOH and Na2CO3. This is explained by the interaction of the

The Stability of Electrolyte Foam

SOV/80-32-5-20/52

hydroxyl ions with the water molecules.

There are: 4 graphs, 2 tables, 1 diagram and 5 Soviet references.

ASSOCIATION: Kafedra khimii Rostovskogo-na-Dodu instituta inzhenerov zh.-d. trans-

porta (Chair of Chemistry of the Rostov-na-Donu Institute of Engineers

of Railroad Transportation)

SUBMITTED:

October 7,1957

Card 2/2

SHYLCHCV, I. H., Cani Chem Sci -- (diss) "Some problems in the physicochemistry of dielectrics." Novocherkassk, 1960. 20 pp; (hinistry of Higher and Specialist Education HSFSm, Novocherkassk Order, Red Sanner Folytechnic Inst im S. Ordzhonikidze); 150 copies; price not given; (KL, 18-60, 147)

GLEYM, V.G., doktor tekhn.nauk; SHELOMOV, I.K., inzh.; SHIDLOVSKIY, B.P., inzh.

The effect of suspended matter on the stability of elementary foam and carry-over of moisture. Teploenergetika 7 no.3: 17-20 Mr '60. (MIRA 13:5)

1. Rostovskiy institut inzhenerov zheleznodorozhnogo transporta. (Chemical engineering) (Foam) (Bubbles)

(MIRA 13:7)

SHELOMOV, I.K.; SPICHAK, M.K.

Reservoir influence on hydrological and hydrochemical conditions in the lower course of rivers. Dokl.AN SSSR 133

no.2:457-458 J1 160.

1. Azovskiy nauchno-issledovatel skiy institut rybnogo khozyaystva, Rostov-na-Doni. Predstavleno akademikom N.M. Strakhovym.

(Don River--Water--Composition) (Don River--Hydrology) (Tsimlyansk Reservoir)

OSIPOV, O.A.; PANINA, M.A.; KASFIRENINOV, O.Ye.; NEMIROV, C.V.;
SHELOMOV, I.K.

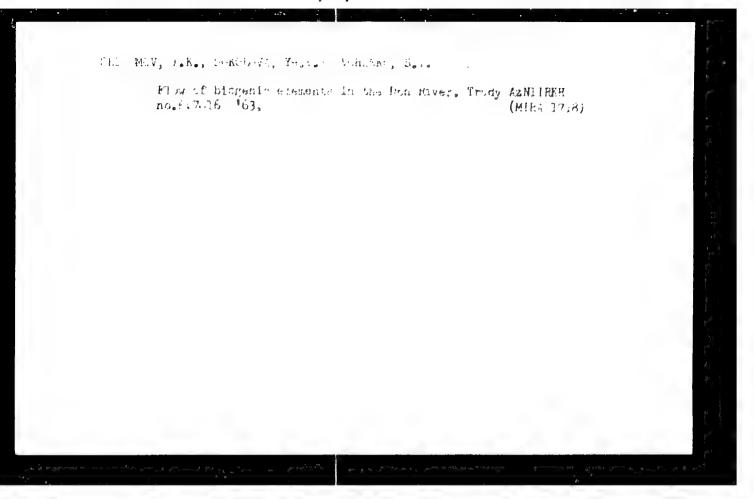
Dielectric constant of binary liquid systems consisting of polar components. Zhur.ob.khim. 31 no.10:3153-3160 0 '61.

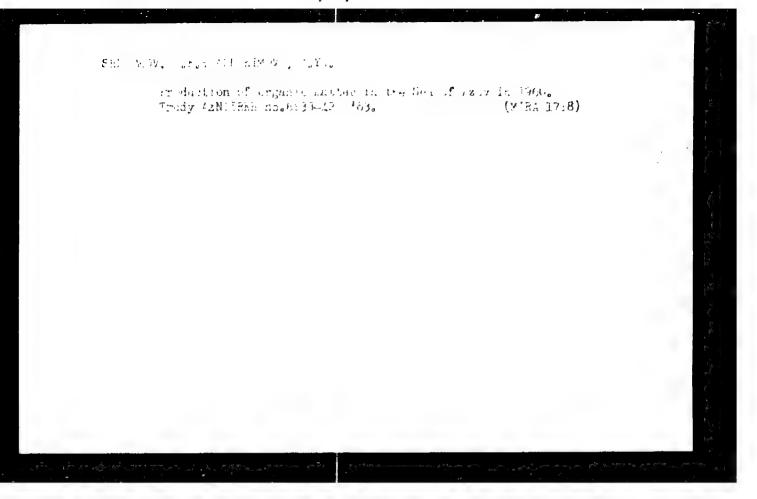
(Systems (Chemistry)) (Dielectrics)

SHELOMOV, I.K.; OSIPOV, O.A.; KASHIREMINOV, O.Yo.

Complex formation in diluted solutions by the method of molecular polarizations. Zhur.ob.knim. 33 no.4:1056-1059 Ap 163. Zhur.ob.khim. 33 no.4:1056-1059 Ap 163. (MIRA 16:5.)

1. Rostovskiy-na-Donu gosudarstvennyy universitet. (Complex compounds-Dipole moments)





111.1.

135-58-4-13/19

AUTHORS:

Lekanov, A.G., and Shelomov, M.I., Engineers

TITLE:

New Design of Roller Support With Independent Drive (Novaya konstruktsiya rolikoopory s nezavisimym privodom)

PERIODICAL:

Swarochnoye Proizvodstvo, 1958, Nr 4, pp 39-40 (USSR)

ABSTRACT:

In 1957, new roller supports came into use at the Podol'skiy zavod (Podol'sk Plant) for the automatic welding of annular seams on Large cylindrical objects. The machine is described and illustrated by a schematic drawing. The device is simple to manufacture and can be applied in all

production operations. There is 1 figure.

ASSOCIATION:

VPTI tyazhelogo mashinostroyeniya (VPTI of Heavy Machine-

Building)

AVAILABLE:

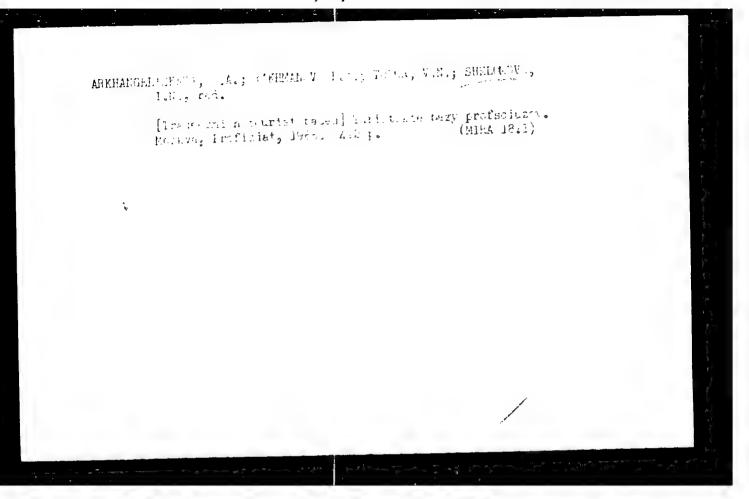
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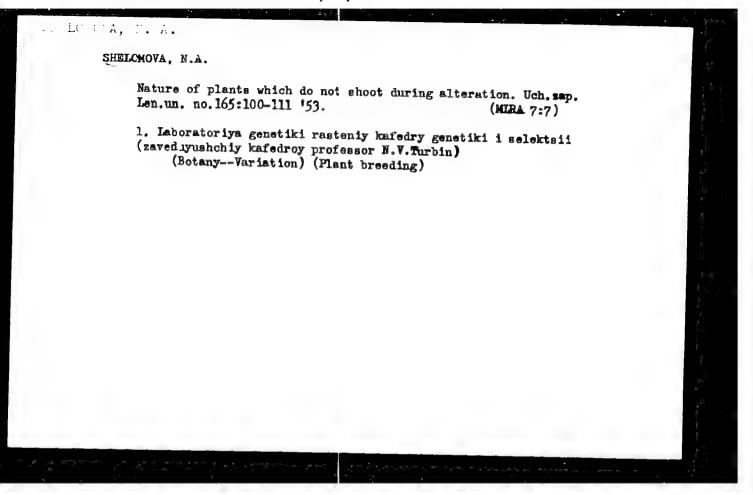
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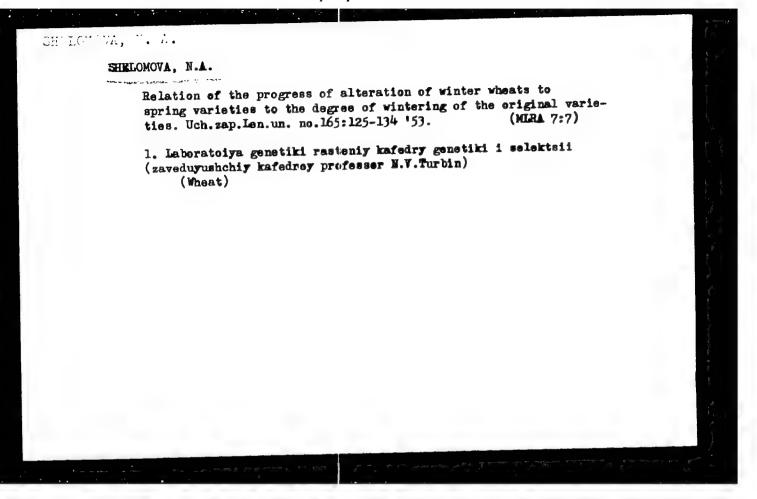
SHELOMOVA, I.N., red.; ZAYTSEVA, L.A., tekhn. red.

[Along tourist routes; tourist bases and routes of the Moscow Council of Tourism of the Moscow City Council of Trade Unions] Po turistskim marshrutam; turistskie bazy i marshruty Moskovskogo soveta po turizmu MGSPS. Moskva, Profizdat, 1963. 197 p. (MIRA 17:2)

1. Moskovskiy sovet po turizmu.







1, 1,60.

5/147/62/000/003/007/007 E199/E488

AUTHOR:

Shelomov, N.A..

TITLE:

On stresses existing in a thin-walled (single cell) beam in the region of a cut-out or discontinuity

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Aviatsionnaya tekhnika, no.3, 1962, 122-130

The usual thin-walled structures assumptions are taken. The problem is based on the method of Professor Yu.G.Odinokov

(Trudy KAI, no.18, 1946)

$$G \sum_{k=n_p}^{k=n_p} a_{ik} W_{kp} - E f_i W_{ip} = R_{ip}(z) \qquad i = 1, 2, ..., n_p,$$
 (1)

where $W_{ip}(z)$ - unknown axial displacement of stringers, n_p - number of stringers in p bay, E, G - elastic moduli, f_i^p - cross-sectional width of the stringer plus skin. Solution of this equation involves determination of 1) characteristic roots $\lambda^{(k)}$; 2) multipliers $b^{(k)}$ which reduce it to a standard form; 3) p standard coordinates Card 1/3

S/147/62/000/003/007/007 E199/E488

On stresses existing in ...

$$\varphi_{p}^{(k)} = \sum_{l=1}^{l=n_{p}} Ef_{l}b_{lp}^{(k)} \cdot W_{lp}(z),$$

$$\psi_p^{(k)} = -\sum_{l=1}^{l=n_p} b_{lp}^{(k)} \cdot R_{lp}(z) \tag{3}$$

 $(E \cdot f_i \cdot b_{ip}^{(k)} = h_{ip}^{(k)}$ represents some matrix H_p)

4) general integral

$$\varphi_{p}^{(k)}(z) = C_{1p}^{(k)} \cdot z + C_{2p}^{(k)} + \overline{\varphi}_{p}^{(k)}(z)$$

$$\varphi_{p}^{(k)}(z) = \int_{0}^{z} (z - t) \psi_{p}^{(k)}(t) dt$$

$$|_{k=1, 2, \dots, 7}, \qquad (4)$$

$$\begin{split} & \varphi_p^{(k)}(z) = C_{1p}^{(k)} \sinh \lambda_p^{(k)} z + C_{2p}^{(k)} \cot \lambda_{pz}^{(k)} + \overline{\varphi}_p^{(k)}(z) \\ & \overline{\varphi}_p^{(k)}(z) = \frac{1}{\lambda_p^{(k)}} \int\limits_0^z \sinh \lambda_p^{(k)}(z-t) \, \psi_p^{(k)}(t) \, dt \end{split}$$

Card 2/3

5/147/62/000/003/007/007 E199/E488

On stresses existing in ...

- 5) $d_p^{(k)}$ elements of H_p transposed;
- 6) general integral

$$W_{ip} = \sum_{k=1}^{k-n_p} c!_{ip}^{(k)} \cdot \varphi_p^{(k)}(z), \tag{5}$$

The method developed by the author can be applied to a single cell of an arbitrary cross-section loaded by any system of forces. It can be seen, from the included examples, that:

1) stringer stresses in a built-in beam, calculated by the above method, compare better with the experimental results than the stresses obtained by conventional equations; 2) width of the cut-out a and the original number of stringers n have a strong influence on the stress in a beam with a short cut-out.

 $\alpha = \frac{m+1}{n} 2^{\frac{m}{2}}$, m - number of cut away stringers.

There are 6 figures and 6 tables.

SUBMITTED: October 19, 1961

Card 3/3

s/879/62/000/000/073/088 D234/D308

Shelomov, N. A. (Khar'kov) AUTHOR:

Stressed state of thin-walled systems of variable cross TITLE:

section

Teoriya plastin i obolochek: trudy IIVsesoyuznoy konfe-SOURCE:

rentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vo

AN USSR, 1962, 404-407

The author describes an approximate method for a system of zero Gauss curvature, having a plane of symmetry and subject to bending in a plane normal to that of symmetry. He uses the new static hypothesis of coincidence of the planes of action of internal and external forces proposed by L. P. Vinokurov. The calculation scheme is as follows: the middle surface is referred to a system of curvilinear coordinates; differential connection is established between the forces T, and S using the condition of equilibrium of a surface element; T1 is assumed as a finite series,

Card 1/2

Stressed state of ...

S/879/62/000/000/073/088 D234/D308

then S is found from the differential relation mentioned above, and algebraic equations are formulated for determining the constants. A circular conical shell with closed edge, loaded by a force P and a moment Mz, is taken as an example, the result being

$$T_{1} = \frac{M_{z} + P_{y}(\alpha - \alpha_{1})\cos\theta}{\pi\alpha^{2}\sin^{2}\theta \cdot \cos\theta} \left[C_{1} \sin\beta + C_{2} \sin2\beta\right]$$
(10)

$$S = \frac{P_{y}\alpha_{1}\cos\theta - M_{z}}{\pi\alpha^{2}\sin\theta \cdot \cos\theta} \left[C_{1}\cos\beta + \frac{C_{2}}{2}\cos2\beta\right] + \frac{P\alpha_{1}\cos\beta_{0}}{2\pi\alpha^{2}\sin\theta}$$

$$C_1 = 1;$$
 $C_2 = \frac{3}{2} \cos \beta_0$ (11)

There are 3 figures.

Card 2/2

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AUTHOR: Shelomov, N. A.	e of conical shells, as caused by torque applied
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equation. Some assumptions are introduced and the author arrives at ratios determining the terms of the resolution. A numerical example is presented.

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ACCESSION NR: AP4040972

\$/0147/64/000/002/0057/0067

AUTHOR: Shelomov, N. A.

TITLE: Design of closed cylindrical and slightly conical shells of arbitrary cross section

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 2, 1964, 57-67

TOPIC TAGS: shell, cylindrical shell, conical shell, arbitrary computation algorithm

ABSTRACT: The stress distribution in cylindrical and slightly conical constructionally orthotropic "semimembrane" shells under an arbitrary surface loading is analyzed by the method of forces using Castigliano's variational principle, and assuming: 1) the validity of the Kirchhoff-Love hypothesis on preservation of normals, 2) a given expression for specific energy of shell deformation, and 3) resistance to moments only along the circumference. The state of stress of the shell is treated as the sum of a basic (equilibrium) and a supplementary

Card 1/3

ACCESSION NR: AP4040972

(self-balanced) state. The first can be determined by previously developed methods. The analysis of the self-balanced stresses is facilitated by introduction of an even, self-conjugate differential operator which provides a denumerable set of eigenvalues with a corresponding complete orthogonal system of chains of eigenfunctions. An algorithm for computing the eigenvalues and eigenfunctions of the operator by a method of successive approximations is given, and a method of applying this algorithm to stress analysis of arbitrary-cross-section cylindrical and slightly conical shells by adapting the previously obtained solutions for circular cylindrical shells is discussed. A block diagram is presented for a convenient process of calculating (with a prescribed accuracy on an electronic computer) the stress distribution in "semimembrane" shells the cross section of which can be given in tabular form. Orig. art. has:

ASSOCIATION: none

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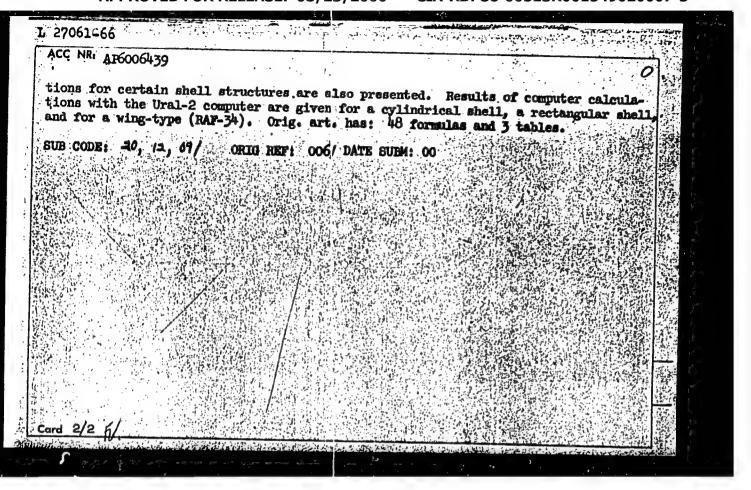
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SHELOMOV, N.A.

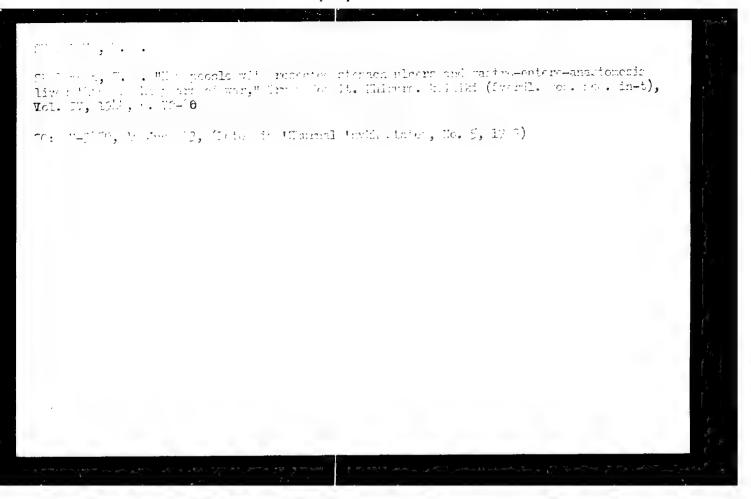
Stressed state of a thin-walled beam in the area of the cut-out or imperfect joint. Izv.vys.ucheb.zav.; av.tekh. 5 no.3:122-130 '62. (MIRA 15:9)

(Beams and girders)

27061-66 EWT(d)/EWT(m)/EWP(v ACC NR: AP6006439	SOURCE CODE: U	(h)/ETC(m)=6 I. JR/0420/65/000/003	JP(c) WW/EM 8/0059/0071
AUTHOR: Shelomov, N. A.			7.5
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TITLE: Calculation of the <u>eigen</u> an electronic digital computer	functions of semi-moment.	less cylindircal	shells with
SOURCE: Samoletostroyeniye i te	khnika vozdushnogo flota,	, no. 3, 1965, 59	-71 structure
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KLIMOV, K.M., professor, laureat Stalinskoy premii; SMIRWOV, Ye. professor; KIRILLOV, B.K., professor, FAYVISHENKO, E.L., professor, MUKHIN, M.V. professor; BAL', professor, NORENBERG-CHARKVIANI, A.Ye., doktor meditsinskikh nauk; SAKHAROV, M.I., doktor meditsinskikh nauk; MAKAROV, Y.P., dotsent; BUTIKOVA, N.I., dotsent; SHELOMOVA, T.P., kandidat meditsinskikh nauk; RAKITINA, L.N., kandidat meditsinskikh nauk; KAMPEL'MAKHER, Ya.A., kandidat meditsinskikh nauk.

Forty years of Professor A.T.Lidskii's scientific, medical and pedagogical activities. Khirurgiia no.6:82-83 Je '55 (MLRA 8:10) (LIDSKEI, ARKADII TIMOFERVICE)

LIDSKIY, A.T., prof. (Sverdlovsk, Bunkovskiy per., d.8, kv.31); SHELOMOVA,

T.P., kand.med.nauk; SHULUTIO, M.L., kand.med.nauk

Some problems in lung surgemy. Vest.khir. 79 no. 9:110-120 S '57.

(MIRA 10:11)

1. Iz gospital'noy khirurgicheskoy kliniki (zsv. - prof. A.T. Maskiy)
Sverdlovskogo meditsinskogo instituts i khirurgicheskogo otdeleniya
Sverdlovskogo gortubdispensera.

(UNDS, surg.
review)

SHELOMOVA, T.P., dotsent

Experience in the surgical treatment of diseases of the lunge.

Khirurgiia 36 no.12:104-109 160. (MIRA 14:1)

1. Iz kliniki gospital'noy khirurgii (zav. - chlen-korrespondent AMN SSSR zasluzhenny deyatel' nauki prof. A.T. Lidskiy)
Sverdlovskogo meditsinskogo instituta.

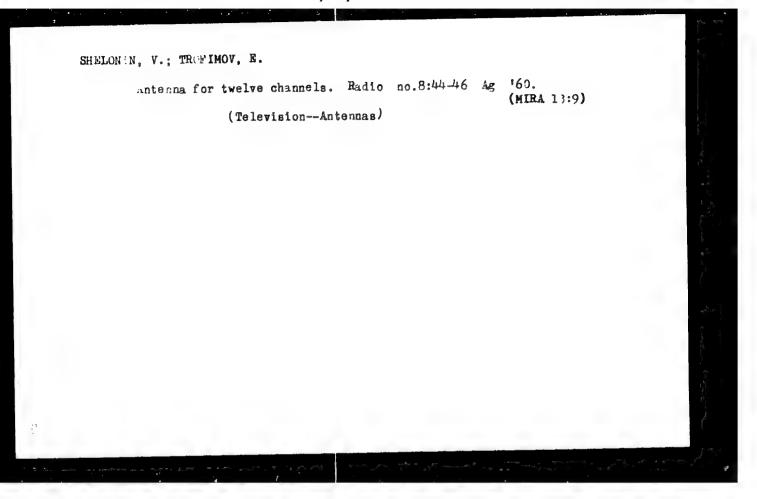
(LUNGS-SUNGERY)

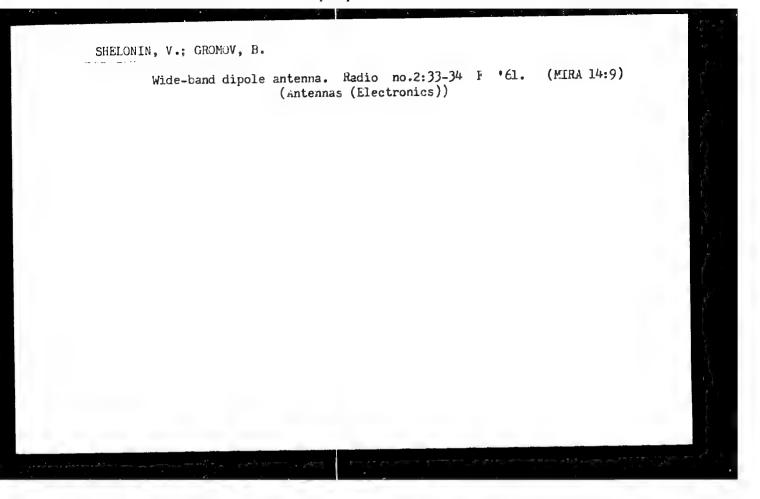
NAUMOV, Vasiliy Mikhaylovich; PROTANSKIY, V.V., retsenzent; SHELONII.

A.S., retsenzent; KOROVIN, V.M., red.; SVETLAYEVA, A.S., red. izdva; SHIBKOVA, R.Ye., tekhn. red.

[Forest exploitation] Lesoekspluatatsiia. 2. dop. i perer. izd. Moskva, Goslesbumizdat, 1962. 410 p. (MIRA 15:7)

(lumbering)





I. 11/122-66 EWT(1)/T/FCS(k)ACC NR: AP5025692 UR/0286/65/000/018/0040/0040 SOURCE CODE: INVENTOR: Knyazev, A. S.: Shelonin ORG: none TITLE: Wide-band dummy dipole antenna. Class 21, No. 174676 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 40 TOPIC TAGS: dipole antenna, antenna configuration ABSTRACT: The proposed wide-band dummy dipole antenna consists of a section of coaxial line with a helical inner conductor made of a high-resistance alloy. The external conductor is a screen provided with apertures. This configuration increases the level of the dissipated power and provides for accurate reproduction of dipole antenna input impedance within a wide frequency range. Orig. art. has: 1 figure. [DW] SUBM DATE: 04Dec62/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS:4/2 UDC: 621.396 674.3

ANTIPOV, Nikolay Ivanovich, kand. biol. nauk, dots.; SHELONINA, I.M., kand. biol. nauk, otv. za vypusk; CHUVAKIN, A.I., red.; AZOVKIN, N.G., tekhn. red.

[How plants feed and grow] Kak pitaiutsia i rastut rasteniia. Riazan', Riazanskoe knizhnce izd-vo, 1962. 166 p. (MIRA 15:12)

1. Ryazanskiy pedagogicheskiy institut (for Antipov).
(Plants-Nutrition) (Growth (Plants))

Shelchila, I. M., Cand Biol Sci -- (diss) "Development of mycorrhiza in corn under the conditions of the Voronezh oblast in connection with some procedures in agrotechnics." Yoronezh, 1960. 19 pp; (Ministry of Higher and Secondary Specialist Education ReFSR, Voronezh State Univ); 150 copies; price not given; (KL, 28-60, 160)

SHELONINA, F.N., fel'dsher

Our experience in sanitation work. Fel'd i akush. 28 no.ll:
31-37 N'63 (MIRA lérl2)

1. In Lyubonichskoy sel'shoy bol'nitey Mogilevskoy oblasti.

SHELOPAYEV, G.I., starshiy propodavatel'

Hydrothermal conditions and the resistance of the roadbed of automobile roads in the southern part of Krasnoyarsk Territory. Trudy STI 37:24-33 '64.

Drainage of water form the foundations of road pavements and the calculations for the draining structures for automobile roads in the southern part of Krasnoyarsk Territory. Trudy STI 37:34-40 (MIRA 18:5)

Descripting the day whater relies of the accorder of the Lefteration of the lefteration of the lefteration of the lefteration of the stability and water era status of loany soils by the affiliation of furfamous and the lefteration. The learness libed. 132-37 (MIRA 18:6)

GORBUNOV, M.A.; KOSHKIN, N.I.; NOZDREV, V.F.; SHELOPUT, D.V.

Use of ultra-acoustic methods in studying organic substances in the liquid - polycrystal transition region. Ukr. fiz. zhur. 7 no.8:898-905 S '62. (MIRA 16:1)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy. (Absorption of sound) (Organic matter)

MOSHKIN, N.I., SHELOPUT, D.V.

Accoustic and dielectric losses in the melting region of benzene.
Prim.ul'traskust.k issl.veshch. no.16:91-95 '62.

(MIRA 16:4)

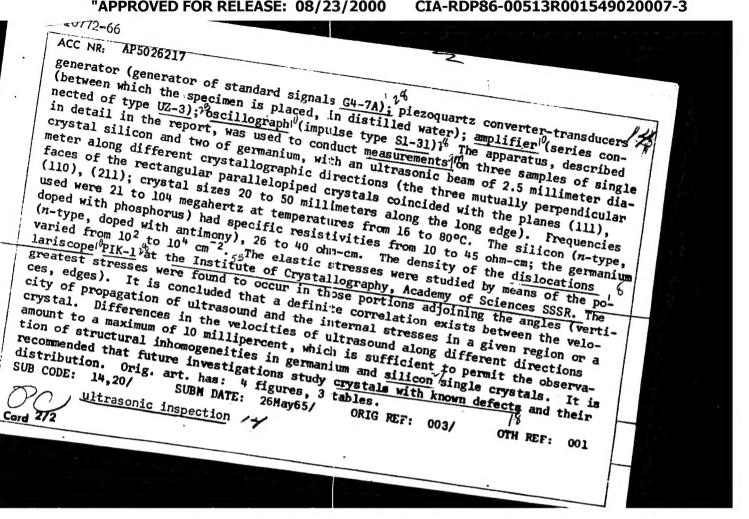
(Penzene--Acoustic properties) (Dielectric loss)

Witrasound absorption in the melting region of polycrystalline paraffin. Prim.ul'traakust.k issl.veshch. no.16:97-99 '62, (MIRA 16:4)

(Paraffins.—Acoustic properties) (Ultrasonic waves)

WAZEM FAT(1)/EMT(m)/EMF(j)/T/EMI(k) IJF(c) SOURCE CODE: UR/CO50/65/000/011/1603/1803 L 32990+66 ACC POR ALLOWORTE AUTHOR: Sheloput, D. V.; Koshkin, N. I. TITLE: Influence of polycrystalline structure on acoustic absorption in the region of mounting of molecular polycrystals SOURCE: Ref. zh. Fizika, Abs. 11zh436 REF SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 20. M., 1964, TOPIC TAGS: ultrasound absorption, melting point, organic crystal, grain structure, single crystal growing, relaxation process, resonance absorption , POLYCRYSTAL , BENZENE ABSTRACT: An experimental investigation was made of the absorption of ultrasound near the melting point of different polycrystalline structures of benzeneland paraf-Pata were obtained on the frequency dependence of α/f in polycrystalline benzene for average grain dimensions $\bar{D}=0.02,\,0.03,\,0.04$, and 0.07 mm at +4c. It is established lished that the dimension of the average diameter of the grain determines the position of the maximum of α/f , its width, and its absolute value. A study was made of the influence of the intergrain boundaries on the absorption in the region of melting of benzene single crystals. The process of growing of single crystals of benzene in a refrigerator and its processing by fusion is described in detail. The size of the grain has different effects on the absorption in benzene and in paraffin: with increasing grain, the maximum of α/f shifts toward the higher frequencies in benzene, Card 1/2

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Novosibirsk Electrical Engineering Institutionstitut) LE: Study of the inhomogeneity of the crysted of ultrasound in different portions of the different portions of the crysted of ultrasound in different portions of the crysted of the crysted of ultrasound in spection, semiconduction of the crysted of ultrasound in different parts of sinciple of ultrasound in different parts of sinciple of the elastic stresses in them are suitilized on the procedure for observing sural defects. The procedure for observing strip is based on the probing of different parts of the modulus of elasticity and internal from the impulse ultrasonic apparatus used in the modulator and synchronizer (video-impulse general production).	tal structure of Ge and Si from the he crystal ctor crystal, crystal structure, crystal s of the relative variations in the ve- ingle crystals of germanium and silicon ito study the distribution of struc- small relative variations in the velo- small relative variations in the velo- small relative variations in the velo- at study are derived from the dependence al study are derived from the dependence
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	2-66 EWT(d)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t) NR: AP5026217 EWA(c)/ETC(m) IJP(c) SOURCE JD/WW OR: Baranovskiy, S. N.; Sheloput, D. V.; B. Novosibirsk Electrical Engineering Institutionstitut) LE: Study of the inhomogeneity of the crysted of ultrasound in different portions of the defects of the compact of the crysted of ultrasound in different portions of the crysted of the crysted of ultrasound in spection, semiconduction of the crysted of the crysted of the crysted of ultrasound in different portions of the crysted of ultrasound in different parts of significant point of ultrasound in different parts of significant parts of the crysted of the elastic stresses in them are sufficient parts of the procedure for observing the probing of different parts of the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for observing the probing of different parts of the procedure for the procedure for the procedure for observing the probing of different parts of the procedure for the procedure



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2 (1)/HI(1), 'M'(m)/T [J (c) GG/RE/WW ACC NR: ARGO25311 SOURCE CODE: UR/0058/66/000/003/H072/H072 AUTHOR: Koshkin, N. I.; Sheloput, D. V. TITLE: Acoustic properties of molecular crystals near melting SOURCE: Ref zh. Fizika, Abs. 3Zh505 REF SOURCE: Tr. 1-y Mezhvuz. nauchm. konferentsii po primeneniyu molekul. akust. k issled. veshchestva i v nar. kh-ve. Tashkent, 1964, 67-75 TOPIC TIGG: molecular crystal, acoustic property, melting, ultrasound absorption, absorption coefficient, temperature dependence, frequency characteristic, crystal dislocation phenomenon ABSTRACT: The authors investigated the temperature and frequency dependences of the coefficient of absorption of ultrasound and the dependence of absorption on the linear dimensions of the grains of polycrystalline structures in the melting region. The temperature dependence was investigated in benzene, paraxylol, benzyl alcohol, 7 naphthalene, cyclohexane, carbon tetrachloride, and praffin. It turns out that the coefficient of absorption at the maximum is 2 - 3 orders of magnitude higher than in the liquid phase near the melting point. The shift of the maximum from the melting point changes from substance to substance. The frequency dependence of the absorption was investigated only in benzene and in paraffin. Analyzing the results of their measurements, the authors arrive at the conclusion that the absorption of ultrasound in molecular crystals is due essentially to hysteresis losses (the frequency-independent component of the absorption) and to resonance losses (in benzene) or to

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relaxation (in paraffin). From the point of view of dislocation segments break away from the resonant lossos occur under induced oscillations of the [Translation of abstract]	heir anchor points, and
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